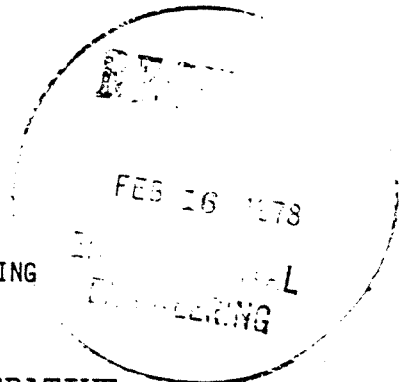




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Merced Co.

NORTH DAKOTA STATE DEPARTMENT OF HEALTH  
Air Pollution Control Program  
1200 Missouri Avenue  
Bismarck, North Dakota 58505

ANNUAL EMISSION INVENTORY REPORT  
FORM AP 301  
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING  
Calendar Year 1977



1. Name of Firm or Organization: BASIN ELECTRIC POWER COOPERATIVE
2. Plant Location: Stanton, ND
3. Permit to Operate Number: 730004
4. Source Unit Number (from Permit to Operate): Unit #2
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>1,964,660 Tpy</u> (Specify Units)	Type _____ Quantity per year _____ (Specify Units)
	Delivered Cost of fuel <u>\$4.34/ton</u> (\$/Unit Quantity)	Delivered Cost of fuel _____ (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. 12.99 Min. 6.59 Avg. 8.80		
PERCENT SULFUR Max. .78 Min. .17 Avg. .435		
BTU PER UNIT Max. 6960 Min. 6100 Avg. 6617		

## 6. Monthly Fuel Use:

Unit #2

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type _____		Type <u>Lignite</u>	Type _____
	Units <u>Tons</u>	Units _____		Units <u>Tons</u>	Units _____
Jan.	252,155		July	169,203	
Feb.	231,905		Aug.	186,586	
March	246,923		Sept.	172,821	
April	47,241		Oct.	183,453	
May	82,555		Nov.	29,583	
June	171,449		Dec.	190,786	

## 7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type _____ Units _____
Maximum	388 ton/hr.	
Average	295 ton/hr.	

## 8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season January and August  
(Specify Months of Year)

Total Hours Per Year 8064 (6667 actual)

## 9. Stack Emissions:

Unit #2

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	86	286
Sulfur Dioxide	4250	14,170
Nitrogen Oxides	2275	7,580
Other (Specify)	26%	

Basis For Quantities Listed Above:

Particulates - Precipitator Performance Tests

SO<sub>2</sub>, NO<sub>x</sub> and Opacity - Stack Monitors10. Name of Person Submitting Report (Print or Type) KENT E. JANSSENTitle Manager of ProductionPhone 223-0441

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed)

Richard F. FickelDate 2-15-78for Kent E. Janssen